CARBOHYDRATE RESEARCH, VOL. 173 (1988)

AUTHOR INDEX

ABBAS, S. A., 297
ALBERSHEIM, P., 101, 113
ANDREETTI, G. D., 151
ARMSTRONG, C. R., 285
ASHRAF, H.-R. L., 324

BANASZEK, A., 145
BAX, A., 53
BHATTACHARJEE, A. K., 169
BOCELLI, G., 151
BRAUN, P., 324
BYRD, R. A., 65

CABALLERO, R. B., 1
CALHOUN, L. A., 235
CHOW, J. M., 273
CUBERO, I. I., 41

DARSEY, J. A., 197
DARVILL, A. G., 101, 113
DEFAYE, J., 316
DELL, A., 113

EGAN, W., 53, 65

FERNANDEZ-BOLAÑOS, J., 17, 33
FERNANDEZ-BOLAÑOS GUZMAN, J., 17, 33
FRENCH, D., 324
FUENTES MOTA, J., 1, 17
FURNER, R. L., 255

GALBIS PEREZ, J. A., 1
GALITSKII, N. M., 145
GARCIA FERNANDEZ, J. M., 1
GAREGG, P. J., 205
GEY, C., 175
GLAUDEMANS, C. P. J., 169
GLUZIŃSKI, P., 145, 151
GOLIKOV, A. E., 145
GOUX, W. J., 292
GRASDALEN, H., 159
GUIRGIS, N., 53
GUPTA, A. K., 159

HALL, L. D., 285
HARA, C., 332
HENRICHSEN, J., 217, 227
HINDSGAUL, O., 263
HOME, K. R., 285
HUANG, D. H., 255

JAIN, R. K., 297
JANN, B., 243
JANN, K., 243
JANSSON, P.-E., 217, 227
JAROSZ, S., 151

KAKU, H., 113
KAWAKISHI, S., 89
KIHO, T., 332
KING, R. R., 235
KOBAYASHI, S., 324
KOERNER, JR., T. A. W., 197
KOHLMÜNZER, S., 316
KRAJEWSKI, J. W., 145, 151
KRISHNA, N. R., 255
KUMAR, N. S., 227
KVARNSTRÖM, I., 205

LAU, J. M., 101
LINDBERG, B., 205, 217, 227
LINDBERG, J., 217
LÓPEZ-ESPINOSA, M. T. P., 41

MATTA, K. L., 297
MAYA CASTILLA, I., 33
MCNEIL, M., 101
MEAGHER, M. M., 273
MELLET, C. O., 1
MICHELL, A. J., 185
MISAKI, A., 133
MORGENLIE, S., 303

NAGAI, K., 332
NAKAHARA, Y., 306
NOBLE, O., 175

OATES, J. E., 113
OGAWA, T., 306
ØRSKOV, F., 53
ØRSKOV, I., 53

PEREZ, S., 175
PIERCE, M., 263
PRADERA ADRIAN, M. A., 1
PRITCHARD, D. G., 255

REILLY, P. J., 273
RENER, B. P., 255
ROBBINS, J. B., 53, 65
RODRIGUEZ, M.-L., 243

SCHNEERSON, R., 53, 65
SHIBATA, S., 133
SINGH, R. P., 235
SODZAWICZNY, K., 316
SONE, Y., 133
SRIVASTAVA, O. P., 263
STEINMEIER, H., 75
SUMMERS, M. F., 53, 65
SVENSSON, S. C. T., 205

TAHIR, S. H., 263
TAO, B. Y., 273
TARAVEL, F. R., 175
TILLER, P. R., 113
TSUI, F.-P., 65

UCHIDA, K., 89
UKAI, S., 332
URBÁNCZYK-LIPKOWSKA, Z., 151

VAN HALBEEK, H., 113
VANN, W. F., 53
VERENICH, A. J., 145
VOLL, R. J., 197

WIDMALM, G., 227
WITHERS, S. G., 285
WONG, E., 316

YASNITSKII, G. A., 145
YOKOMORI, Y., 332
YORK, W. S., 113
YOUNATHAN, E. S., 197

ZAMOJSKI, A., 151
ZUGENMAIER, P., 75

CARBOHYDRATE RESEARCH, VOL. 173 (1988)

SUBJECT INDEX

Ab initio SCF energy calculations of the rotational orientation of each of the exocyclic groups of 6-*O*-methyl-β-D-tagatofuranose, 197

O-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-(1→3)-β-D-galactopyranoside, 4-nitrophenyl, *O*-α-L-fucopyranosyl-(1→3)-, synthesis of, 297

N-Acetylglucosaminyltransferase V, synthesis of selective acceptor for, 263

2-Acylamino-2,6-dideoxy-D-glucopyranose-6-sulphonates, syntheses of sodium, 33

Affinity chromatography on chitosan-based materials, evaluation of, 285

Anti-α-L-arabinofuranose antibodies: purification, immunochemical characterization and use in histochemical studies of plant cell-wall polysaccharides, 133

Antibodies, anti-α-L-arabinofuranose, purification, immunochemical characterization, and use in histochemical studies of plant cell-wall polysaccharides, 133

Borate ions, complexes with guar D-galacto-D-mannan of, 175

The branched malto-oligosaccharides resulting from the action of *Bacillus macerans* cyclomylose glucanotransferase on 6-*O*-α-D-glucopyranosylcyclomaltohexaose plus D-glucose, 324

Cellulose (3-chlorophenyl)urethane, formation of liquid-crystalline phases by, 75

Celluloses I and II and related mono- and oligosaccharides, second derivative F.t.-i.r. spectra of, 185

Characterization of rabbit antibodies that recognize determinants on naturally occurring glycoproteins, 169

Chitosan-based, affinity-chromatography materials, synthesis and evaluation of, 285

Conformational and X-ray investigations of 7,8-dideoxy-1,2:3,4-di-*O*-isopropylidene-6-*O*-methyl-D-*glycero*-α-D-*galacto*-oct-7-ynopyranose, 151

Conformational and X-ray investigations of methyl 2,6-di-*O*-acetyl-3,4-anhydro-α-DL-(6,6-$^2H_2$)talopyranoside, 145

Determination of the structure of the *Escherichia coli* K100 capsular polysaccharide, cross-reactive with the capsule from Type B *Haemophilus influenzae*, 65

1,2-Dideoxy-3-heptulose derivatives, synthesis of, 41

Disaccharides, (1→4)- and (1→6)-linked, interaction of, with the Fenton reagent under physiological conditions, 89

Enhancement of protonated molecular ions and ammonium·Molecular ion complexes in direct liquid introduction-mass spectrometry of carbohydrates, 101

Escherichia coli K18, K22, and K100, antigens, comparative structural elucidation of, as related ribosyl–ribitol phosphates, 243

Ethers of *myo*-inositol, synthesis of some benzyl and methyl, 205

Fenton reagent, interaction of the, with (1→4)- and (1→6)-linked disaccharides, under physiological conditions, 89

F.t.-i.r. spectra of cellulose I and II and related mono- and oligo-saccharides, second derivative, 185

O-α-L-Fucopyranosyl-(1→3)-*O*-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1→3)-β-D-galactopyranoside, 4-nitrophenyl), synthesis of, 297

G Group streptococcus, structure of the polysaccharide from, 255

D-Galacto-D-mannan, from *Melilotus officinalis* seeds, 159

D-Galacto-D-mannan, guar, complexes with borate ions of, 175

β-D-Galactopyranoside, 4-nitrophenyl, *O*-α-L-fucopyranosyl-(1→3)-*O*-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1→3)-, synthesis of, 297

Galactopyranosyluronate derivatives for oligosaccharide synthesis, preparation of, 306

β-D-Glc*p*NAc-(1→2)-α-D-Man*p*-(1→6)-β-D-Man*p*O$(CH_2)_8CO_2Me$, synthesis of, 263

D-Glucan, antitumor, water-soluble, from the carpophores of *Tylopilus felleus*, 316

Glycoproteins, naturally occurring, characteriza-

tion of rabbit antibodies that recognize determinants on, 169
Group G streptococcal polysaccharide, structure of, 255
Guar D-galacto-D-mannan, complexes with borate ions of, 175

Heptulose, synthesis of derivatives of 1,2-dideoxy-, 41
Heterocycles, synthesis of 4-thio-*C*-nucleoside analogues by dehydration of 4-thio-polyhydroxyalkyl, 17
Heterocyclic compounds, synthesis of D-ribosylamines, D-ribopyranosyl isothiocyanates, and D-ribopyranosylthioureas and their transformations into, 1
A ^{2}H-N.m.r. spectral method for determination of the degree of polymerization of reducing oligosaccharides, 292
O-Hydroxypropyl)cellulose, phenylalkanoyl esters, formation of liquid-crystalline phases by, 75

Inositol, synthesis of some benzyl and methyl ethers of *myo*, 205
Interaction of (1→4)- and (1→6)-linked disaccharides with the Fenton reagent under physiological conditions, 89
O-Isopropylidene-1,5-*O*-methylene derivative of β-D-ribofuranose, the 2,3-, 303

Kinetics and subsite mapping of a D-xylobiose-producing *Aspergillus niger* Endo-(1→4)-β-D-xylanase, 273

Liquid-crystalline phases, formation by two phenylalkanoyl esters of *O*-(hydroxypropyl) cellulose and cellulose (3-chlorophenyl)urethane, 75
Location of the *O*-acetyl substituents of a nonasaccharide repeating unit of sycamore extracellular xyloglucan, 113

Malto-oligosaccharides, the branched, resulting from the action of *Bacillus macerans* cyclomylose glucanotransferase of 6-*O*-α-D-glucopyranosylcyclomaltohexaose plus D-glucose, 324
Mannan, a (1→3)-α-D-, from a water extract of *Dictyophora indusiata* Fisch., 332
Mass spectrometry, direct liquid introduction, of carbohydrates, enhancement of protonated molecular ions and ammonium·molecular ion complexes in, 101
8-Methoxycarbonyloctyl glycoside, selective acceptor for *N*-acetylglucosaminyltransferase V, synthesis of, 263
Methyl (allyl 2,3-di-*O*-benzyl-β-D-galactopyranosid)uronate, synthesis, 306
Methyl 2,6-di-*O*-acetyl-3,4-anhydro-α-DL-(6,6-$^2H_2$)talopyranoside, X-ray and conformational investigations of, 145
Methyl (2,3-di-*O*-benzyl-α- and -β-D-galactopyranosyl fluoride)uronate, synthesis, 306
O-Methylene derivatives of β-D-ribofuranose, the 1,5- and the 2,3-*O*-isopropylidene-1,5-, 303

Oct-7-ynopyranose, X-ray and conformational investigations of7,8-dideoxy-1,2:3,4-di-*O*-isopropylidene-6-*O*-methyl-D-*glycero*-α-D-*galacto*-, 151
Oligosaccharides, reducing, a ^{2}H-n.m.r.-spectral method for determination of the degree of polymerization of, 292

Polysaccharide, capsular, of *Escherichia coli* K100, determination of the structure of the, 65
Polysaccharide from *Streptococcus pneumoniae* type 18A, structural studies of the capsular, 227
Polysaccharide from *Streptococcus pneumoniae* type 18F, structural studies of the capsular, 217
Polysaccharides, capsular, of *Escherichia coli* K93 and K53, structural studies of the, 53

Ribofuranose, the 2,3-*O*-isopropylidene-1,5-*O*-methylene and 1,5-*O*-methylene derivatives of β-D-, 303
D-Ribosylamines, D-ribopyranosyl isothiocyanates, and D-ribopyranosylthioureas, synthesis of, and their transformations into heterocyclic compounds, 1
Ribosyl–ribitol phosphates, comparative structural elucidation of the *Escherichia coli* K18, K22, and K100 antigens as related, 243
Second derivative F.t.-i.r. spectra of celluloses I and II and related mono- and oligo-saccharides, 185
Seeds, of *Melilotus officinalis*, a D-galacto-D-mannan from, 159
Sodium 2-acylamino-2,6-dideoxy-D-glucopyranose-6-sulphonates, syntheses of, 33
Solanum neocardenassii Hawkes & Hjerting (PI 498129), type B glandular trichomes, 2,3,4,3′-tetra-*O*-acetylated sucrose esters from, 235
Streptococcus, group G, polysaccharide, structure of, 255
Streptococcus pneumoniae type 18A, structural studies of the capsular polysaccharide from, 227
Streptococcus pneumoniae type 18F, structural studies of the capsular polysaccharide from, 217
Structural elucidation of the K18, K22, and K100 antigens of *Escherichia coli* as related ribosyl–ribitol phosphates, comparative, 243
Structural studies of the capsular polysaccharide

from *Streptococcus pneumoniae* type 18A 227
Structural studies of the capsular polysaccharide from *Streptococcus pneumoniae* type 18F 217
Structural studies of the *Escherichia coli* K93 and K53 capsular polysaccharides, 53
Sucrose esters, 2,3,4,3′-tetra-*O*-acelated, from the type B glandular trichomes of *Solanum neocardenassi* Hawkes & Hjerting (PI 498129), 235
Syntheses of D-ribosylamines, D-ribopyranosyl isothiocyanates, and D-ribopyranosyl-thioureas, and their transformations into heterocyclic compounds, 1
Syntheses of sodium 2-acylamino-2,6-dideoxy-D-glucopyranose-6-sulphonates, 33
Synthesis of 1,2-dideoxy-3-heptulose derivatives, 41
Synthesis of some benzyl and methyl ethers of *myo*-inositol, 205
Synthesis of 4-thio-*C*-nucleoside analogues by dehydration of 4-thiopolyhydroxyalkyl heterocycles, 17

β-D-Tagatofuranose, 6-*O*-methyl-, *ab initio* SCF energy calculations of the rotational orientation of each of the exocyclic groups of, 197
4-Thio-*C*-nucleoside analogues, synthesis of, by dehydration of 4-thiopolyhydroxyalkyl heterocycles, 17
1-Thio-β-D-glucopyranosyl groups, synthesis of chitosan containing, 285
Towards Better Carbohydrate Vaccines, *(book review)*, c2
Trichomes, type B glandular, of *Solanum neocardenassi* Hawkes & Hjerting (PI 498129), 2,3,4,3′-tetra-*O*-acylated sucrose esters from, 235
Tylopilus felleous, structure of D-glucan from the carpophores of, 318
Tylopylan, structure of, 318

Wood and cellulosics: Industrial utilisation, biotechnology, structure and properties, *(book review)*, c1

X-ray and conformational investigations of 7,8-dideoxy-1,2:3,4-di-*O*-isopropylidene-6-*O*-methyl-D-*glycero*-α-D-*galacto*-oct-7-ynopyranose, 151
X-Ray and conformational investigations of methyl 2,6-di-*O*-acetyl-3,4-anhydro-α-DL-(6,6-$^2H_2$)talopyranoside, 145
β-D-Xylanase, endo-(1→4)-, from *Aspergillus niger*, kinetics and subsite mapping of a D-xylobiose- and D-xylose-producing, 273
Xyloglucan, sycamore extracellular, location of the *O*-acetyl substituents of a nonasaccharide repeating unit of, 113